Hi-Fi Component

DENON

SERVICE MANUAL MODEL POA-S10

SOLID STATE
MONAURAL POWER AMPLIFIER



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NIPPON COLUMBIA CO., LTD.

Always keep the POWER switch on the main unit lunned on. In the power on and off from the remote control unit of the pre-ampliture IPRA-S10, etc.). In the power cond when you do not plan to use the unit for a long period of time.

Conecte y desconecte la alimentación mediante la unidad de control remoto de presemptación (PRAS), o ec. . Cuando la unidad vaya astati fuera de uso por un período prolongado de tempo, desconecte el cable de alimentación. Mantenga siempre activado el interruptor de alimentación (POWER) en la unidad principal.

CLARGOLUCON.

CLANDO SOLO el indicador STANDRY (espera) esté encendido.

Seperado solo el indicador STANDRY (espera) esté encendido.

Seperado solo el indicador los selectes desde la sumentación mediante la unidad de control remoto. Coneste la simentación mediante la unidad de control remoto Goneste la simentación mediante la unidad de control remoto del presimplificador (PRA-STO, etc.).

CAUTION

If norly the STANDBY indicator is III, this means that the power is turned off from the remote control unit. Turn the power on from the remote control unit of the pre-amplifier IPRA-S10, etc.).

IWEIS: Lassen Sie den Netzschalter (POWER) am Hauptgerät stets einge-

- Schalten Sie den Strom mit Hilfe des Fernbedienungsgerätes des Schalten Sie den Strom mit Hilfe und aus. Terene Sie das Netzäbel vom Nett ab, wem Sie beabsichtigen, das Gerät über einen längeren Zeitraum hinweg nicht zu benutzen.

OPMERING:

Song er altigd soor dat de stroomschakelian (POWER) van het hoofdide-stel in de ingeschieden stand steat.

Schäekel de spaaning in en uit en de alstandsbediering van de voorsversterier (PSVS, Sto., an.).

Trish het netsoor uit vanneer u denkt het toestel gedurende een lange periode niet te gebruiken.

Wenn die STANDBV. Anzeige leinchtet, bedeutet dies, das der Strom Wenn die STANDBV. Anzeige leinchtet, bedeutet dies. Schalten mit dem Feinbedienungsgestil ausgeschaltet worden ist. Schalten Eine Stomm und een Feinbedienungsgest des Vorverstänkers (PRA-St) u. w.) ein.

REMARCHUE:
J. Sasurier que le commutateur d'alimentation IPOWERI sur l'unité
principale ent le romantateur d'alimentation propriée de l'aliment de desindre réparent avec la télécommande du préamplifica-teur IPM-S10, etc.).

Repéranche l'adjunction lorsque l'appareil ne sère pas utilisé pendant une longue période.

OBSERVERA.

1. Its and stombytaten (POWER) på hruvdenheten vara platiagen.

1. Stå stommen till och trån va fjartbontollen som medföljer forforstår:

2. Stå stommen till och trån va fjartbontollen som medföljer forforstår:

2. Koppå loss nåtkaben om apparaten inte skall användas under fång tid

3. Koppå loss nåtkaben om apparaten inte skall användas under fång tid

3. Koppå loss nåtkaben om apparaten inte skall användas under fång tid

VARNING:

The mediast stromindisation hyaer betyder det att strömmen hav
stangts av via fightrominollen. När dis sedan silkr på strömmen igen
standsta detta goraften fjärtkömtollen som mediblijer förförstälikaren (PAA-SIO m fl.).

WAARSCHUWING:

a relate of STANDBY-indicator brandt beteken dit dat de
spanning is ungescherdeld met de sfstandsbediering. Schakel de
spanning in met de sfstandsbediering van de voorversterker
[PRAS-S10, enr.).

ATENTON:
Seutement l'indicateur STANDBY (attente) est allume, cela signifie que l'appareil est étent à l'aide de la télécommande, signifie que l'appareil avec la télécommande du préamplificateur PPAAS10, etc.).

Tenete sampre l'interrutiore della corrante (POWER) dell'unità primoi: per neils positive del altiviscimi une sono della corrante una sociali della corrante pRAS-(1), e.c.l.

Scollegali illi di alimentatione quando avete internione di non usare l'apparecchio per un lungo periodo.

MOTA.

1. Mantenha o interuptor da Correnta (POWER) na unidade principal

2. Ligare estaligue a correnta a partir da unidade de controlo remoto do

pirá amplinación (PRA-S10, etc.).

3. Desconcete o flo de força quando intentar não utilizar a unidade por

1. Desconcete o flo de força quando intentar não utilizar a unidade por

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Se solo indicatore STANDBY (attess) è illuminato, ciò significa che la corrente è stata spenia usando il relecomando. Riscoendre la corrente usando il relecomando dei preampificatore (PRAS)0, ecci.

PRECAUTIONS FOR INSTALLATION LEave at less 15cm of space between this unit and power amprifier or any other component placed below.

PRECAUCIONES PARA LA INSTALACION
Deje al menos un espacio de 15 cm entre esta unidad y el amplificador de
potencia o cualquier otro componente colocado abajo.

PRECAUÇÃO:
2-panas saiver iluminado o indicador de aguardar (STANDBY).
3-panas saiver iluminado o indicador de aguardar (STANDBY).
3-panas saiver iluminado o indicador de aguarda que acordo de control o emotor Luga a corrente a partir da unidade de controlo entrolo pre-amplificador (PRA-SI), etc.).

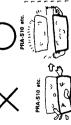
Laat tenninste 15 cm ruimte tussen dit toestel en de vermogensversterker of een ander onderdeel dat zich eronder bevindt. FORSIKTIGHETSÅTGÅRDER VID INSTALLATIONEN Lamna att utrymme på minst 15 cm mellan denna apparat och effektiör-stärkaren ellar andra apparater, som ställs under appäraten.

VOORZORGSMAATREGELEN

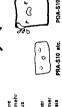
SICHERHETISMASSNAHMEN BEIM ENBAU Lassen Sie zwichen diesen Geräl und dem Leistungsverstärker bzw. einer anderen sich unter diesem Geräl befindlichen Komponente, einen Zwi-zoberaum von 15 cm.

PRECAUTIONS D'INSTALLATION

rra quest'unità e l'amplificatore di installato sotto la stessa. Laisser un espace d'au moins 15 cm entre cet appareil et l'amplificateur de puissance ou n'importe quel autre appareil placé en-dessous. PRECAUZIONI PER L'INSTALLAZIONE Lasciate uno spazio di almeno 15 cm ti potenza oppure l'altro componente ins















(c)

PRA-S10 etc.

9

note on use/hinweise zum gebrauch/observations relatives a l'utilisation note sull'uso/notas sobre el uso/alvorens te gebruiken/observera observações quanto ao uso



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Learness dessentations de la constitución de la participation de la participation de la constitución de la c

Last gen veemde voorverpen in dit apparaat valen.
 Se till stif frammande foremål inte tranger in i apparaten.
 Não dexe objetos estranhos no aparetho.

- Attempting set inter from moisture, water, and

 Halens. Set das Geart von Fruchrigheit.

 Wasser und Stabl fern

 Proteger Experient comer Frumdite, Feau

 et it prossière reprient comer frumdité duit se

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 Tenet funda lonare sail umidité duit se

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 agas y police

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 Spaneara branchringen

 Oppareara branchr

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- Unjoil the protect could be present or using the set for trop periods of inne.

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condition to institición benotio a sobremi No permina el constato de inescricións spationna y diluyentes con el quijor. Lasi geen insettementelegonde midden. Tenta geen insettementelegonde midden. Se til an lan di insettementel pa garybout, benesen col relimiente former i fonial med apparantos holje. No permita que inseticidas. Destina e dissolvente entienn em contacto com o apparatio.

Handle the power cord carefully.

Hold the plug when unplugging the cord

Gehen Sie vorsichtig mit dem Netzkabel

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um Hellen Sir des Kahel am Sirchet, ween Sie den Sischer Inerauteihen en Sieden Sieder Inerauteihen er Godon d'alimentation avec précaudion la prize lors du débranchement du Firmi la prize lors du débranchement du chonnegaire il filo di alimentatione con télumingaire il filo di alimentatione con cura.

Deixe um espaço de pelo menos 15 cm entre esta unidade e o amplificador ou quelquer outro componente colocado abaixo

CUIDADOS NA INSTALAÇÃO

Never disassemble or modify the set in any

•



- Do not obstruct the ventilation holes. Die Belütungsöffnungen dürfen nicht ver-

Adia pres la spina quando scollegate i cavo dala pres la sona del codon de aregia con ciudado Sosteroga el enchudo de energia. Costudo Sosteroga el enchudo cando desconece el cododo de energia. Patrose has note los deservas avannes dede a sone la voltenta ano il como a sone sone sone de se la festiva sa avannes deser men worden aano il como a rabishen vasa mistante deser mas de la rabe de la sone sone de la sone sone de la rabe de la sone sone de la sone sone de la sone sone de la s

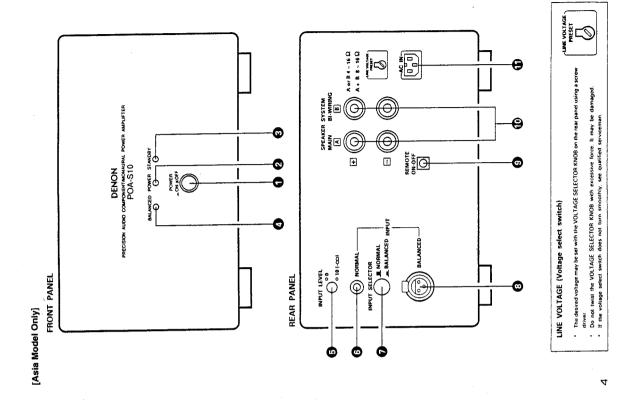
uttaget.

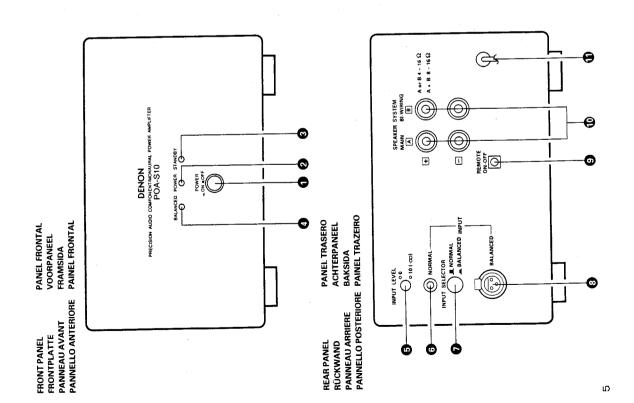
Manuseie com cuidado o fio condutor de

energia. Segure a tomada ao desconectar o fio.

- We pas obstruer les trous d'abeation Non popitib i lois di ventialesion No obstruez les orificos de vereillacion De vertifialetopetinique mogen nels vorden trebolòxiere il li ventialetorappeniquara Tapp met illi ventialetorappeniquara » Nacio obstrue se orificios de ventificacio
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O

PRE-AMPLIFIER

CD player

NAMES AND FUNCTIONS OF PARTS

POWER switch

When this switch is pressed, the power is turned on, the POWER indicator **@** flashes for some seconds and then lights steadily, and stable operation condition is reached. When this switch is pressed again, the power is turned off. 0

POWER indicator **© ©**

STANDBY indicator

when one clud or a remains provided by the pre-amplifier's power switch is "off".

Note: If the pre-amplifier power switch is turned "on" under the above conditions, after the STAND BY indicator ● has gone off, the POWER indicator will blink for a few seconds until the amplifier has stabilized, then the unit will be in the normal state. (1) When one end of a remote power cord is connected to the power amplifier and the other end is The set will not operate when this indicator is "on".

(2) When one end of a remote power cord is inserted in the DC input on the back panel and the other end is open (not connected).

BALANCED indicator

0

This lights when the INPUT SELECTOR switch (9) on the rear panel (refer to page 5) is set to BALANCED, indicating that a balanced input (XLR connector) is selected.

INPUT LEVEL

9

Adjust the input level with this knob.

NORMAL INPUT terminal 0

This is a normal input terminal (RCA connector). Connect it to the pre-amplifier's normal pre-out terminal.

INPUT SELECTOR

This switch selects between the balanced input and the normal input (RCA pin jack). BALANCED indicator **©** lights when the balanced input is selected.

BALANCED INPUT terminal

0

This is an XLR input terminal. Connect it to the pre-amplifier's XLR PRE-OUT terminal.

Pin 2: Cold (-) Pin 3: Hot (+) The polarities of the pins are as follows; Pin 1: Ground (GND)

REMOTE ON-OFF terminal 0

This terminal is used for remote control of the pre-amplifier. A low-voltage DC current is emitted from the terminal to turn on the power of a DENON pre-amplifier (model PRA-\$10, etc.).

SPEAKER SYSTEM terminals

9

Connect the speaker systems here.

AC power cord

Plug this cord into a wall power outlet. •

AC IN

•

Connect this to a power outlet using the included AC power cord. (Asia Model Only) PROTECTOR

Various protector circuits are included in this unit. POWER indicator @ blinks when these circuits are

operating.

(1) Muting time, which lasts for several seconds after the power is turned "on".

(2) When the offset voltage of the power amplifier has drifted outside the prescr

(3) When the temperature of the power amplifier is abnormally high.

(4) When a speaker terminal is shorted or a speaker's impedance is extremely Ic

When the offset voltage of the power amplifier has drifted outside the prescribed range. When the temperature of the power amplifier is abnormally high. When a speaker terminal is shorted or a speaker's impedance is extremely low.

For cancellation of the operation of these protector circuits, set the POWER switch to OFF.

When the POWER indicator still flashes several seconds after the POWER switch has been switched on, refer to the section TROUBLESHOOTING

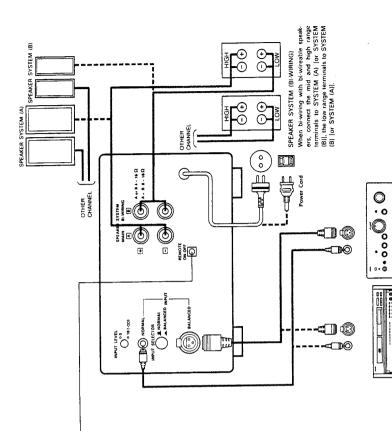
and check for the cause.

CONNECTIONS

Notes on Connection
Do not plug the power supply cord into the wall socket, until all the connections are complete.
Plug the pins in securely. An incomplete connection will cause noise generation.
Binding the pin plug to the power supply cord, or setting the pin cord close to the power supply

transformer will cause humming or noise, and should be avoided.

This terminal is for the remote power switch. The power amplifier's power can be turned "on" and "off" by connecting the remote power cord to the DC output terminal of the pre-amplifier (PRA-S10, etc.) and using the power switch on the pre-amplifier.



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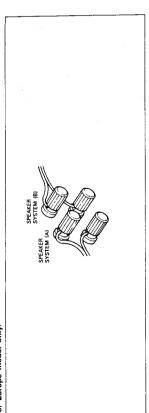
7-

- When connecting the speaker terminals to the speaker systems, make certain to connect the polarities correctly (+ to + and to -). If the polarities are incorrect when the two are connected, the center area of the sound will be a lacking, the positions of the musical instruments will not be clear, and the stereo directional sensitivity will be impaired.
 During connection, be careful that the center wires in the speaker cords do not protrude from the terminals to contact any other terminal, and that the central wires in the separate speaker cords do not Connection to the speaker system
 - contact each other.
 - If only one speaker system is to be used, connect it to the SYSTEM (A) terminals.

- When only one of the A or B terminals us used, the speakers that are to connected should have a nominal Speaker impedance
- impedance of 4 to 16 Ω/ohm.

 When the two sets (A + B) are to be used at the same time, use of speakers whose impedance is outside the range from 8 to 16 Ω/ohm will result in malfunction. Be careful not to let this happen.
 - Speakers with a lower impedance may cause the protective circuitry to operate.

For Europe model only.



For U.S.A. and Canada model only. (Case of UL standardized articles)

This amplifier produces a large power output at the speaker terminals, which means that a dangerous amount of energy is generated and that there is the danger of electric shock. Please perform the speaker cord connections correctly as follows.

Making connections that differ from the specified method 1) For the speaker connection cord, use a cord made with may give rise to a shock hazard.)

- non-combustible insulation material with a VW-1 rating 2) Use a screwdriver to take the screws holding the speaker or a cord of the SPT-1 type or one with higher flexibility.
- 3) Connect the speaker cord specified in 1) to the speaker terminal cover out.
- 4) Tie the speaker cord, then pass it through the cutout hole in the speaker terminal cover.
 - 5) Install the speaker terminal cover removed in 2).

CHFW SPEAKER SYSTEM (A) SCREW

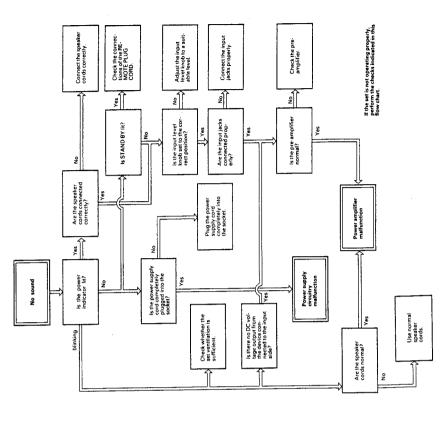
FROUBLESHOOTING

Before troubleshooting, be sure to check whether your audio system is really the source of the problem.

If you think the amplifier is out of order, first check the following one more time:

- Are all the connections correctly made?
 Is the set being operated properly in accordance with the Operating Manual?
 Are the speakers and pre-amplifier being operated correctly?
 If the set does not operate properly, perform the checks indicated in the flow chart below.

If none of the items listed apply to the difficulty, the amplifier is probably out of order. Turn off the power immediately, and contact the outlet where you purchased the amplifier or your nearest DENON dealer.



9

Technical Data (typical value)	Technische Daten (typische werte)	Caractéristiques techniques (valeur caractéristique)	
POWER AMPLIFIER SECTION	LEISTUNGSENDS VERSTÄRKER	PARTIE AMPLIFICATEUR DEPUISSANCE Puissance nominale:	
Rated Output Power:	Nenn-Ausgangsleistung:	*1	
(8 Ω/ohm Load) 20 Hz to 20 kHz, T.H.D. 0.02% (4 Ω/ohm Load) DIN, 1 kHz, T.H.D. 0.7%	(an 8 Ω/Ohm) 20 Hz bis 20 kHz, T.H.D. 0,02% (an 4 Ω/Ohm) DIN, 1 kHz, T.H.D. 0,7%	(charge 8 Q/ohms) 20 Hz à 20 kHz, D.H.T. 0,02% (charge 4 Q/ohms) DIN, 1 kHz, D.H.T. 0,7%	150W 300W
* ² Continuous 150W per channel min into 8 Ω/ohms from 20 Hz to 20 kHz with no more than 0.02% total harmonic distortion	* ² Fortlaufend 150W pro Kanal min. zu 8 Ω/Ohm von 20 Hz bis 20 kHz mit einem Gesamtklirrfaktor von nicht mehr als 0,02%.	*2150W en continu par canal sur min. 8 Ω/ohms de 20 Hz à 20 kHz avec une distorsion harmonique totale de 0,02% ou moins.	150W
Total Harmonic Distortion: (-3 dB at rated output, 8 Ω /ohms) (1 kHz)	Gesamtklirrfaktor: (–3 dB bei Nennausgang, 8 Ω/Ohm) (1 kHz)	Distorsion harmonique totale: (–3 dB à la sortie nominale, 8 Ω/ohms) (1 kHz)	0.002%
Intermodulation Distortion: (60 Hz/7 kHz: 4/1 at rated output, 8 Ω/ohms)	Intermodulationsverzerrung: (60 Hz/7 kHz: 4/1 bei Nennausgang, 8 Ω/Ohm)	Distorsion d'intermodulation: (60 Hz/7 kHz: 4/1 sortie nominale, sur 8 Ω/ohms)	0.002%
Power Band Width: (8 Ω/ohms, THD 0.05%)	Netzbandbreite: (8 Ω/Ohm, Klirrfaktor 0,05%)	Bande passante: (8 Ω/ohms, DHT 0,05%)	5 Hz~50 kHz
Frequency Response: +0, -3 dB (at 1 W)	Frequenzgang: +0, -3 dB (bei 1 W)	Réponse en fréquence: +0, -3 dB (à 1 W)	1 Hz ~ 150 kHz
Input Sensitivity: Normal in: Balance in:	Eingangsempfindlichkeit: Normaleingang: Symmetrischer Eingang:	Sensibilité d'entrée: Normal: Symétrique:	1 V 1 V
Input Impedance: Normal in: Balance in:	Eingangsimpedanz: Normaleingang: Symmetrischer Eingang:	Impédance d'entrée: Normal: Symétrique:	47 kΩ/kohms 10 kΩ/kohms
Output Impedance:	Ausgangsimpedanz:	Impédance de sortie:	0.1 Ω/ohm (1 kHz)
S/N Ratio: (IHF, A-weighting)(Normal)	Rauschabstand: (IHF, A-bewertet)(Normal)	Rapport S/B: (IHF, pondéré A)(Normal)	120 dB
Output Terminals: Speakers A or B4 Ω/ohm~16 Ω/ohm A + B8 Ω/ohm~16 Ω/ohm	Ausgangsklemmen: Lautsprecher A oder B 4 Ω /Ohm \sim 16 Ω /Ohm A + B 8 Ω /Ohm \sim 16 Ω /Ohm	Bornes de sortie: Enceintes A ou B 4 Ω/ohms~16 Ω/ohms A + B 8 Ω/ohms~16 Ω/ohms	
Power Supply: Europe model: U.S.A. and Canada models:	Netzteil: Europäisches Modell: Modell für USA und Kanada:	Alimentation: Modèle pour l'Europe: Modèles pour les U.S.A. et le Canada:	AC 230 V/50 Hz AC 120 V/60 Hz
Asia	Asien	Asie	AC110/220/230V,50/60 Hz
Power Consumption: U.S.A. and Canada: IEC: Asia	Stromaufnahme: USA und Kanada: IEC: Asien	Consommation: U.S.A. et Canada: IEC: Asie	2.7 A 270 W 220 W
Dimensions: (Including control knobs and feet)	Abmessungen: (einschließlich Reglern und Füßen)	Dimensions: (avec les commandes et les pieds)	310 (W) × 207 (H) × 426 (D) mm (12-7/32" × 8-9/64" × 16-49/64")
Weight:	Gewicht:	Poids:	15.7 kg (36 lbs 1 oz)

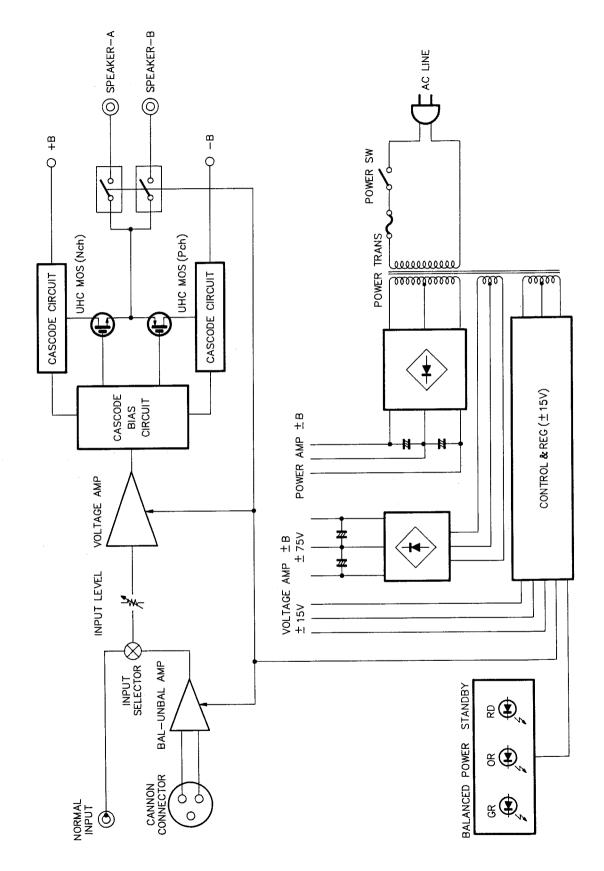
Note: *1 For Europe and Asia *2 For U.S.A. and Canada

Hinweis: *1 Für Europa und Asien
*2 Für die USA und Kanada

Note: *1 Pour les Europe et le Asie *2 Pour les U.S.A. et le Canada

Specifications and contents are subject to change without notice for purposes of improvement.
Änderungen des Inhalts und der technischen Daten zum Zwecke der Verbesserung vorbehalten.
Spécifications et contenu sont sujets à modification sans préavis.

BLOCK DIAGRAM

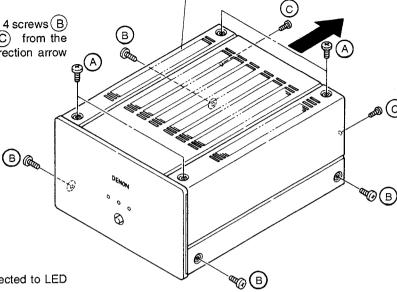


DISASSEMBLY INSTRUCTIONS

(For reassembling, do reverse manner as to disassemble.)

1. Top Cover

(1) Remove 4 screws A from the upper side, 4 screws B from left and right side and 2 screws C from the backside, detach the top cover in the direction arrow shows.

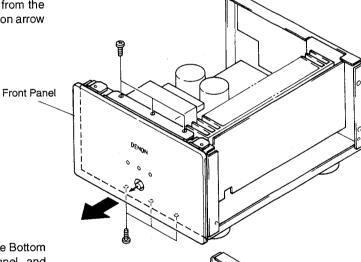


Top Cover

2. Front Panel

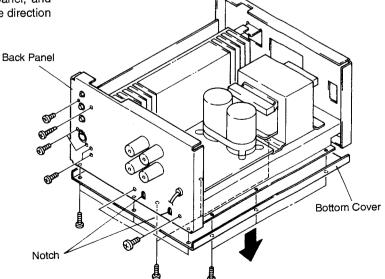
(1) Remove connector of wire which is connected to LED P.W.B..

(2) Unfastan 3 screws from the bottom, 3 screws from the top, and dismantle the Front Panel in the direction arrow shows.



3. Back Panel

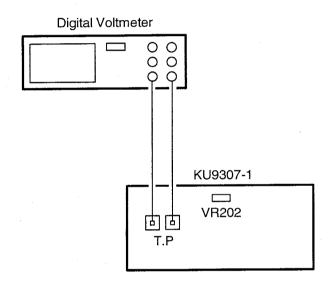
Remove 9 screws from the bottom, and take out the Bottom Cover. Then remove 7 screws from the back panel, and detach the Back Panel out of the 2 notches in the direction as arrow shows.



ADJUSTMENT

1. Adjustment of Idle Current (KU-9307-1)

- Setup
- 1. Keep the unit away from direct wind blown by an air-conditioner and an electric fan, and keep the under normal conditions. Adjust range of ambient temperature to 15 30°C.
- 2. Set the following switches as follows:
 - POWER (Power switch) to off
 - INPUT LEVEL (level control) to 0 ()
 - SPEAKERS (Speaker Terminal) to no load (Speakers Disconnected)
- Adjustment
- 1. Connect DC Voltmeter to Test points (T.P) of KU9307-1.
- 2. Turn POWER Switch "ON".
- 3. Adjust VR202 so that the DC Voltmeter reads 40 ~ 50mV.
- 4 Then after 10 minutes warmup, readjust VR202 so that the DC Voltmeter reads 65 \pm 5mV.



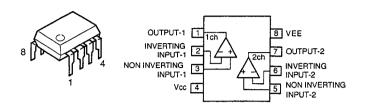
2. Adjustment of Neutral Point Voltage

- (1) Connect a digital voltmeter to the SPEAKER terminal.
- (2) Turn the unit power on.
- (3) Turn the LEVEL controls on the back panel fully clockwise (maximum).
- (4) Confirm the voltage on the meter indicates within \pm 100mV value.

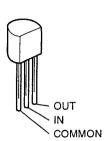
SEMICONDUCTORS

• IC

NJM2068ADA

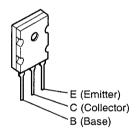


NJM79L15AT

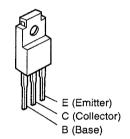


TRANSISTORS

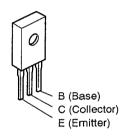
2SA1302 (R/O) 2SC3281 (R/O)



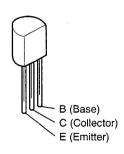
2SD1944 2SB1287



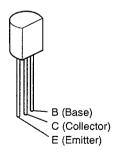
2SC4137



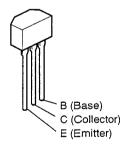
2SA988 (E/F) 2SC1841 (E/F) 2SC2878 (A/B)



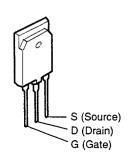
2SA1145 2SA1321 2SC3334



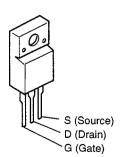
2SA1048 (GL) 2SC2458 (BL)



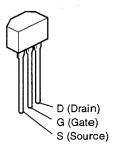
2SJ216



2SJ313 2SK2013



2SK381 (B/C)



2SK373(Y) 2SK1303 2SJ109 1: Drain 1 2: Gate 1 3: Source 1 4: Sub Straight 5: Source 2 6: Gate 2 S (Source) D (Drain) 7: Drain 2 D (Drain) G (Gate) G (Gate) S (Source) RN1201 (4.7K-4.7K) RN1202 (10K-10K) RN1201 RN1202 RN2202 RN2202 (10K-10K) B (Base) C (Collector) `E (Emitter) • DIODES 1SS270A HZS3B-1 1SR35-200A TLP521-1 (BL) HZS7B-1 HZS16-1 Navy Blue Navy Blue SEL-4214S SEL-4414E SFOR1A42 D5FB20 (4001) Thyristor SEL-4914A K (Cathode) Anode | A (Anode) G (Gate) - Cathode

P. W.BOARD OF KU-9307 POWER AMPLIFIER UNIT

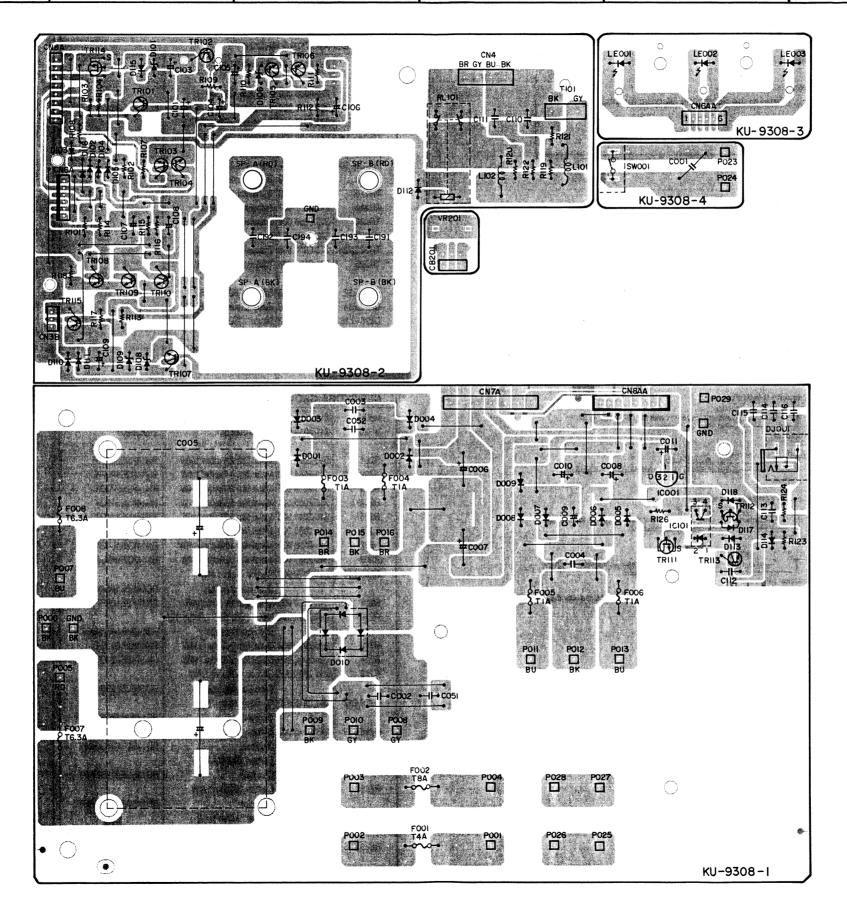
1 2 3 4 5 6 7 8

KU-9307-1 0 6 00 •∕0]• FB202 TR220 S TR212 #C224 FR266 C230 ₹R265 TR223 TR211 P017 GY P022 #C222 P021 ₹R267 #C223 GND O C291 T TC226 R274 STY-I C252 •-||-• R250 2 R246 R234 R244 2 R240 R232 PO20 RD POI8 BU

D

P. W.BOARD OF KU-9308 POWER SUPPLY & CONTROL UNIT

1 , 2 , 3 , 4 , 5 , 6 , 7 , 8



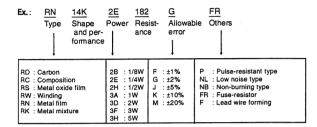
■ POA-S10 ■

NOTE FOR PARTS LIST

- Part indicated with the mark " " are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

Use ONLY replacement parts recommended by the manufacturer.

Resistors



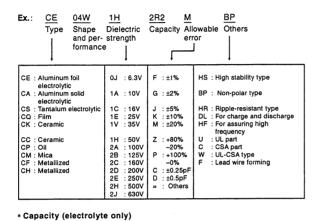
* Resistance

1 8 2 ⇒ 1800 ohm = 1.8 kohm Indicates number of ze 1800 onm = 1.8 konm
 Indicates number of zeros after effective number.
 2-digit effective number.

• Units: ohm

1 R 2 ⇒ 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R. • Units: ohm

Capacitors



* Capacity (electrolyte only)

 $\frac{2}{1}$ $\frac{2}{1}$ \Rightarrow $\frac{2200\mu F}{1}$ Indicates number of zeros after effective number. 2-digit effective number. • Units: μF.

⇒ 2.2µF

1-digit effective number.

2-digit effective number, decimal point indicated by R. • Units: μF.

* Capacity (except electrolyte)

2 2 2 ⇒ 2200pF = 0.0022µF

T (More than 2) — Indicates number of zeros after effective number.

2-digit effective number. • Units: μF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric

P.W.B. ASS'Y PARTS LIST

KU-9307B/D/E POWER AMP UNIT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICON	IDUCTORS	GROUP		R227	245 2081 905	Metal film 3.6kohm 1/4W	RN14K2E362GT
IC201	263 0466 000	IC NJM2068ADA		R228	245 2068 902	Metal film 1kohm 1/4W	RN14K2E102GT
10201	200 0400 000	TO NOMEDOON DA		R229,230	241 2315 912	Carbon 10ohm 1/4W	
TR200	275 0086 000	Transistor 2SJ109				(Fusible)	RD14B2E100GFRST
TR201	1	Transistor RN1201(4.7K-4.7k	() Built in Resistor	R231~277	241 2387 940	Carbon 4.7ohm 1/4W	
TR202	I	Transistor 2SC2458(BL)	1			(Non-burning type)	RD14B2E4R7JNBST
TR203,204		Transistor 2SA1145(O)/(Y)		R239~256	244 2051 945	Metal oxide film 1ohm 1W	
TR205		Transistor 2SA1321		l		(Non-burning type)	RS14B3A010JNBST
	i	Transistor 2SC3334		R263	245 2374 900	Metal film 1Mohm 1/4W	RN14K2E105FT
TR209	1	Transistor 2SK2013		R265,266	241 2377 947	Carbon 100ohm 1/4W	
TR210	275 0088 008	Transistor 2SJ313				(Non-burning type)	RD14B2E101JNBST
TR219	273 0332 907	Transistor 2SC3334		R267	241 2376 977	Carbon 51ohm 1/4W	
TR220	273 0360 908	Transistor 2SC2458(Y)				(Non-burning type)	RD14B2E510JNBST
TR221	273 0436 007	Transistor 2SC4137	·	R268,269	241 2371 914	Carbon 1kohm 1/4W	
TR223,224	273 0317 906	Transistor 2SC2458(BL)				(Fusible)	RD14B2E102GFRST
TR225	271 0191 906	Transistor 2SA1048(GR)		R271		Metal film 33kohm 1/4W	RN14K2E333GT
		, ,		R272	244 2051 932	Metal oxide film 3.3kohm 1W	
D211,212	276 0432 903	Diode 1SS270ATE				(Non-burning type)	RS14B3A332JNBST
D213,214	276 0453 908	Zener Diode HZS3B-1TD		R274	244 2043 937	Metal oxide film 10ohm 1W	DOLUBOA (OS INIDOT
D215~218	276 0432 903	Diode 1SS270ATE				(Non-burning type)	RS14B3A100JNBST
D219	276 0432 903	Diode 1SS270ATE		R293,294		Metal film 10kohm 1/4W	RN14K2E103GT
D220	276 0478 909	Zener Diode HZS18-1TD		R997	245 2044 900	Metal film 100ohm 1/4W	RN14K2E101GT
D221~225	276 0432 903	Diode 1SS270ATE					
DECISTO	DC CDOUD	antimated Carbon F	Um 59/ 1/4M to m a)	CAPACIT	ORS GROUI	<u> </u>	
		not included Carbon F		C201~203	255 4217 007	Film 100pF/50V	CQ09P1H101JT
- 1	1 1	Variable 100kohm (Input)	V0920V20MB104	C201~203		Electrolytic 10µF/35V	CE04W1V100MT SME
VR202	211 6014 069	Adjust 200ohm	V09QB201	C204 C205		Film 100pF/50V	CQ09P1H101JT
				C205		Film 470pF/50V	CQ09P1H471JT PDH
R201		Metal film 2.4kohm 1/4W	RN14K2E242GT	C206		Electrolytic 10µF/35V	CE04W1V100MT SME
R202		Metal film 4.7kohm 1/4W	RN14K2E472GT	C207		Ceramic 10pF/500V	CC45SL2H100DT
R203		Metal film 2.7kohm 1/4W	RN14K2E272GT	C209		Electrolytic 10µF/50V	CE04D1H100MBPT SM
R204		Metal film 5.1kohm 1/4W	RN14K2E512GT	0203	204 0000 000	(Bipolar)	0201511110011121110111
R205	1 1	Metal film 100ohm 1/4W	RN14K2E101GT	C210	255 1265 936	Film 0.01µF/50V	CQ93M1H103JT B
R206		Metal film 1kohm 1/4W	RN14K2E102GT	C211,212		Electrolytic 10µF/100V	CE04W2A100MT AVF
R207		Metal film 100kohm 1/4W	RN14K2E104GT	C213		Film 0.01µF/50V	CQ92M1H103JT MRZ
R208	1	Metal film 3.6kohm 1/4W	RN14K2E362GT	C214		Film 470pF/50V	CQ09P1H471JT PDH
R209,210	241 23/9 98/	Carbon 1kohm 1/4W	DD44D0E400 INDOT	C215		Electrolytic 470µF/50V	CE04W1H471M AVF
D044	045 0074 000	(Non-burning type)	RD14B2E102JNBST	C216		Film 39pF/100V	CQ93P2A390JT NH
R211 R212	·	Metal film 1Mohm 1/4W	RN14K2E105FT	C217,218		Ceramic 10pF/500V	CC45SL2H100DT
nziz	244 2052 999	Metal oxide film 10kohm 1W	RS14B3A103JNBST	C219,220		Film 470pF/50V	CQ09P1H471JT PDH
R213	245 2055 002	(Non-burning type) Metal film 300ohm 1/4W	RN14K2E301GT	C221	1	Electrolytic 470µF/50V	CE04W1H471M AVF
R214		Metal film 220ohm 1/4W	RN14K2E221GT	C222,223	1	Electrolytic 22µF/50V	CE04W1H220MT SME
R215		Carbon 1.2kohm 1/4W	NN14N2E221G1	C224		Electrolytic 47µF/50V	CE04W1H470MT SME
N213	241 2300 903		DD14D0E100 INDCT	C225		Film 0.01µF/50V	CQ93M1H103JT B
D016 017	044 0045 040	(Non-burning type)	RD14B2E122JNBST	C227,228		Electrolytic 10µF/100V	CE04W2A100MT AVF
R216,217	241 2313 912	Carbon 47ohm 1/4W	DD44B0E470CEDCT	C229		Electrolytic 10µF/50V	CE04W1H100MT SME
D010.010	044 0045 000	(Fusible)	RD14B2E470GFRST	C230		Electrolytic 220µF/6.3V	CE04W0J221MT SME
R218,219	241 2315 983	Carbon 330ohm 1/4W	DD44D0F0040FD0T	C231		Electrolytic 10µF/35V	CE04W1V100MT SME
	044 0074 004	(Fusible)	RD14B2E331GFRST	C251~254		Film 0.1µF/100V	CQ93P2A104J NH
D000 004		Carbon 200ohm 1/4W	DD44D0E0040ED0T	C255		Metallized 0.1µF/50V	CF93A1H104JT
R220,221	241 237 1 301	/E 11-1-1	RD14B2E201GFRST	1 0200			CE04W1V100MT SME
		(Fusible)	TIDIABELEDIGITION	C256	254 4258 418		
R220,221 R222	241 2313 901	Carbon 100ohm 1/4W		C256	254 4258 918	Electrolytic 10µF/35V	CE04VV V TOOMY SIME
R222	241 2313 901	Carbon 100ohm 1/4W (Fusible)	RD14B2E101GFRST	C256	254 4258 918	Electrolytic Toppe/SSV	CE044414 LOCIVIT CIVIL
	241 2313 901	Carbon 100ohm 1/4W (Fusible) Carbon 1kohm 1/4W	RD14B2E101GFRST	C256	254 4258 918	Electrolytic Toper/35V	CEC4WTV TOOWT SIVIL
R222 R223,224	241 2313 901 241 2371 914	Carbon 100ohm 1/4W (Fusible) Carbon 1kohm 1/4W (Fusible)		C256 OTHER PA		Енесполупс тод 1735 г	CEO4WTV TOOMT SWIL
R222	241 2313 901 241 2371 914	Carbon 100ohm 1/4W (Fusible) Carbon 1kohm 1/4W	RD14B2E101GFRST		ARTS	Beads inductor	CECHAN I V TOOM I SWIL

14

KU-9308B/D/E POWER SUPPLY & CONTROL UNIT

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
P201	279 0034 041	Posistor(PTH9M04BD222TS2F333)		SEMICON	IDUCTORS	GROUP	1
SW201	212 1134 002	, ,		IC001	T	IC NJM79L15AT	
				IC101	1	Photo Coupler TLP521-1 (BL)	
J201	204 8248 000	1P Connector Base		10.01	202 007 1 000	Thoro coupler (EL GET 1 (BE)	
J202	203 5035 006	3P CANNON Connector		TR101	273 0253 918	Transistor 2SC2878(A/B)TPE2	
				TR102	274 0138 007	Transistor 2SD1944	
				TR103	269 0025 901	Transistor RN1202(10K-10K)T	Built in Resistor
				TR104,105	l .	Transistor 2SC2458(BL)TPE4	1
				TR106	ł .	Transistor RN2202(10K-10K)T	1
				TR107	l	Transistor RN1202(10K-10K)T	Built in Resistor
			l l	TR108,109 TR110	ı	Transistor 2SC2458(BL)TPE4 Transistor RN1202(10K-10K)T	Built in Docietor
				TR111,112	1	Transistor 2SK373(Y)TPE2	Dulit in Nesistoi
				TR113		Transistor 2SC2458(BL)TPE4	
				TR114	l	Transistor 2SK381(C)T	
				TR115		Transistor RN2202(10K-10K)T	Built in Resistor
				D001~009		Diode 1SR35-200A(T93X)	
				D010		Diode D5FB20(4001)	
				D101		Diode HZS16-1TD	
				D102~105 D106		Diode 1SS270ATE Zener Diode HZS7B-1TD	
				D106 D107		Thyristor SFOR1A42 TPE2	
				1 1		Zener Diode HZS7B-1TD	
				,		Diode 1SS270ATE	
					5.		
				LE001	393 9408 916	LED SEL-4414E TP6	
				IE002	393 9408 929	LED SEL-4914A TP6	
				LE003	393 9408 916	LED SEL-4214S TP6	
		•		RESISTOR	RS GROUP (not included Carbon Fil	m ±5% 1/4W type)
				∆ R101	244 2055 996	Metal oxide film 1.2kohm 1W	RS14B3A122JNBST S
						(Non-burning type)	
				△R102	244 2051 932	Metal oxide Illm 3.3kohm 1W	RS14B3A332JNBSTS
				A 2.44		(Non-burning type)	DOLLDONADO NIDOT O
				∆Riii	244 2055 956	Metal oxide film 1.2kohm 1W (Non-burning type)	HS14B3A1ZZJNBS1 S
'				≜ R114	244 2055 996	Metal oxide film 1.2kohm 1W	RS14R34122.INRST.S
						(Non-burning type)	. Inc. ibu. i. Europe
				ΔR117			RS14B3A122JNBST S
						(Non-burning type)	
				∆R119,120	241 2387 940	Carbon 4.7ohm 1/4W	RD14B2E4R7JNBST
						(Non-burning type)	
				∆ R121	244 2050 904		RS14B3A10QJNBSTS
				∆ R122	014 0057 000	(Non-burning type) Metal oxide film 47ohm 1W	RS14B3A470JNBST S
				∆ni22	244 2002 320	(Non-burning type)	na iedane/uuriaa i a
						frem primit Abel	
				CADACITO	ORS GROUP	<u> </u>	
							01/4650040112140
			1	<u> </u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	······································	CK45E2GAC472MC
					1	•	CF93A2E104KT CE68W==153M==153M
				C005 C006,007			CE04W2A102M AVF
				C008,007			CE04W2A102M AVF
			ļ	i .			CE04W1H010MT SME
			-	-		, ,	
							·

Ref. No.	Part No.	Part Name	Remarks
C010	254 4475 005	Electrolytic 470µF/35V	CE04W1V471M AVF
C011		Electrolytic 10µF/35V	CE04W1V100MT SME
C101		Electrolytic 10µF/35V	CE04W1V100MT SME
C103		Electrolytic 4.7µF/35V	CE04W1V4R7MT SME
C104		Electrolytic 10µF/35V	CE04W1V100MT SME
C105		Electrolytic 33µF/16V	CE04W1C330MT SME
C105		Electrolytic 22µF/16V	CE04W1C220MT SME
C100 C107,108		Electrolytic 3.3µF/50V	CE04D1H3R3MBPT SME
		(Bipolar)	
C109		Electrolytic 10μF/35V	CE04W1V100MT SME
C110,111		Film 0.022µF/100V	CQ92P2A223JT
C112		Ceramic 0.01µF/50V	CK45F1H103ZT
C113~116		Ceramic 0.1µF/25V	CK45=1E104KT
C226	255 4235 785	Film 0.033μF/100V	CQ93P2A333JC NH
OTHER P	ARTS		
DJ001	204 8289 001	DC Power Jack	
L101,102		Inductor (1mH)	
RL101	214 9003 005	' '	
∆S₩001	212 1031 008	Power Switch (TV-5)	
∆ F001	206 1015 087		Europe
Δ		Fuse (4A/250V)	Asia
A		Fuse (8A/125V)	U.S.A. and Canada
 		Fuse (8A/250V)	Asia only
 	206 1015 029		Europe
Δ		Fuse (1A/250V)	Asia
Δ		Fuse (1A/125V)	U.S.A. and Canada
<u></u>		Fuse lavel (125V~1A)	U.S.A. and Canada
∆ F007,008	206 1036 011		Europe
Δ		Fuse (6.3A/250V)	Asia
Δ		Fuse (6.3A/125V)	U.S.A. and Canada
<u></u>		Fuse lavel (125V~6.3A)	U.S.A. and Canada
	313 3374 033	l use lavel (1254-0.0A)	O.O.A. and Oanada
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PARTS LIST OF EXPLODED VIEW (POA-S10)

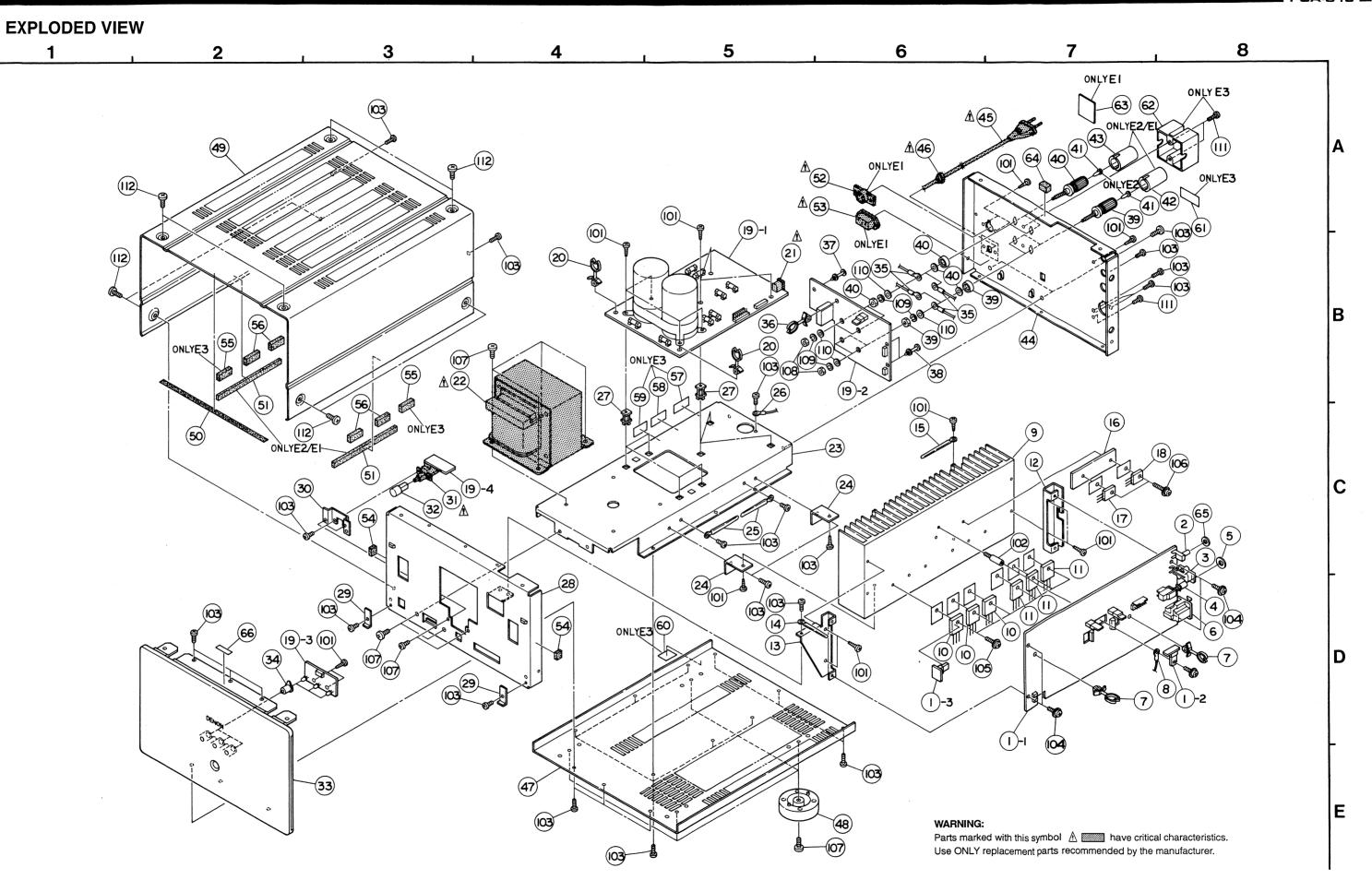
R	ef.No	Part No	Part Name	Remaks	R	ef.No	Part No	Part Name	Remaks
•	Г1	KU- 9307 -B	Power Amp Unit Ass'y	Europe		40	205 0438 015	1P Terminal(RED)	
◉	Н	KU- 9307 -D	Power Amp Unit Ass'y	Asia(Multi-Voltage)	•	41	477 0096 007	Push Rivet	Europe Only
◉		KU- 9307 -E	Power Amp Unit Ass'y	U.S.A., Canada	•	42	462 0036 007	Terminal Cap	Except U.S.A., Canada
	-1-1	_	Power Amp Unit		•	43	462 0036 010	Terminal Cap	Except U.S.A., Canada
	-1-2	_	Bias Transistor Unit		•	۲44	105 9253 108	Rear Panel	Europe
	L ₁₋₃	_	Bias Transistor Unit		•		105 9253 111	Rear Panel	Asia(Multi-Voltage)
	2	211 6106 003	Variable Resistor	(VR201)INPUT LEVEL	0	L	105 9253 124	Rear Panel	U.S.A., Canada
				(V0920V20MB104)	ļΔ	F 45	206 2063 009	AC CordWith Plug	Europe
	3	204 8248 000	1P Connector Base	(J201)INPUT normal	ΙΔ		206 2130 000	AC CordWith Conn.&Plug	Asia(Mutti-Voltage)
	4	212 1134 002	Push Switch	(SW201)INPUT SELECT	^	L.	206 2060 002	AC CordWith Plug	U.S.A., Canada
•	5	122 9032 007	Blind Sheet			46	445 0020 005	Cord Bush(4K-4)	Except Asia
	6	203 5035 006	CANNON Connector Base	(J202)INPUT balanced		47	105 9254 000	Bottom Cover	
•	7	415 9078 015	Cord Holder		•	48	104 9044 000	Foot Ass'y	
	8	447.0000.000			••	49	102 9047 001	Top Cover	
•	9	417 9086 003	Power Radiator	(TD040 045 047)		50 51	122 9006 017	Spacer Sharet	5
1	10 11	273 0391 003 271 0245 001	Transistor(2SC3281) Transistor(2SA1302)	(TR213,215,217)	Δ	52	461 0334 007 212 0363 007	Rubber Sheet Voltage Selector	Except U.S.A., Canada Asia Only
1	12	412 9131 115	Radiator Bracket(B)	(TR214,216,218)		53	4	AC-inlet	Asia Only
	13	412 9131 115	Radiator Bracket(B)		•	54	461 9060 013	Rubber Sheet	nala Willy
	14	445 0048 003	Cord Holder(L76)		•	55	461 9060 000	Rubber Sheet	U.S.A., Canada Only
1	15	445 0048 003	Cord Holder(L76)		•	56	461 9060 000	Rubber Sheet	O.S.A., Odnada Only
	16	417 9087 002	Radiator			57	513 9362 038	Fuse Lavel	U.S.A., Canada Only
	17	275 0081 005	Transistor(2SK1303)	(TR211)	•	58	513 9362 025	Fuse Lavel	U.S.A., Canada Only
	18	275 0080 006	Transistor(2SJ216)	(TR212)	•	59	513 9376 008	Fuse Lavel	U.S.A., Canada Only
•	- 19	KU- 9308 -B	P.S / Control Unit Ass'y	Europe		60	513 8266 009	Dangerous Mark	U.S.A., Canada Only
● r	-	KU- 9308 -D	P.S / Control Unit Ass'y	Asia(Multi-Voltage)		61	LL- 6442 6	CSA Label	U.S.A., Canada Only
•	L	KU- 9308 -E	P.S / Control Unit Ass'y	U.S.A., Canada		62	146 9124 005	Protector	U.S.A., Canada Only
	-19-1	_	Power Supply Unit		•	63	515 8030 008	Preset Label	Asia Only
	-19-2	_	Control Unit		•	64	415 9075 005	Rubber Sheet	
1 }	- 19-3		LED Unit	·	•	65	122 0099 007	Spacer	
	- 19-4	_	Power Switch Unit		•	66	122 9033 006	Spacer	
•	20	415 9078 002	Cord Holder			101	473 7508 017	Screw 3 x 10 CBTS(P)-B	
Δ	21	204 8289 001	DC Power Jack	(DJ001)	•	102	443 0900 158	P.W.B. Support	
20000000	Γ ²²	233 9671 001	Power Trasformer	Europe		103	473 7015 018	Screw 3 x 8 CBTS(S)-B	
Δ		233 9672 000	Power Trasformer	Asia(Multi-Voltage)		104	473 8007 025	3 x 8 CUP Screw	
Δ	 .	233 9675 007	Power Trasformer	U.S.A., Canada		105	473 8007 038	3 x 14 CUP Screw	
•	23	411 9133 204	Trasformer Chassis			106	470 0014 020	Screw 3x16 CPS SWW ZNP	
•	24	412 9059 006	Bracket			107		Screw 4 x 8 CBTS(S)-B	
•	25	445 0048 016 203 0275 007	Cord Holder(L50)		1	108 109		Nut 5 N ZN	
••	26 27		1P Contact Ass'y P.C.B. Holder(T)			110	475 2005 005 475 1006 016	SpringWasher 5 SW ZN Washer 5W BKNI	
•	28	411 9131 109	Front Chassis			111	473 7002 034	Screw 3 x 6 CBTS(S)-B	U.S.A., Canada Only
•	29	412 9431 006				112		Special Screw	U.S.A., Gariada Only
•	30	ı	Power Bracket					opeoidi coren	
Δ	31		Power Switch(TV-5)	(SW001)					
100000	32		Power Button Ass'y						
•	33		Front Panel						
•	34		Lens (P)						
	35		4P SDN-M5 Connector Cord						
•	36	415 9078 015	Cord Holder	1					
•	37	412 2814 060	Card Speacer(L=16)						
•	38		Card Speacer(L=14)						
	39		1P Terminal(BLK)						
<u> </u>									

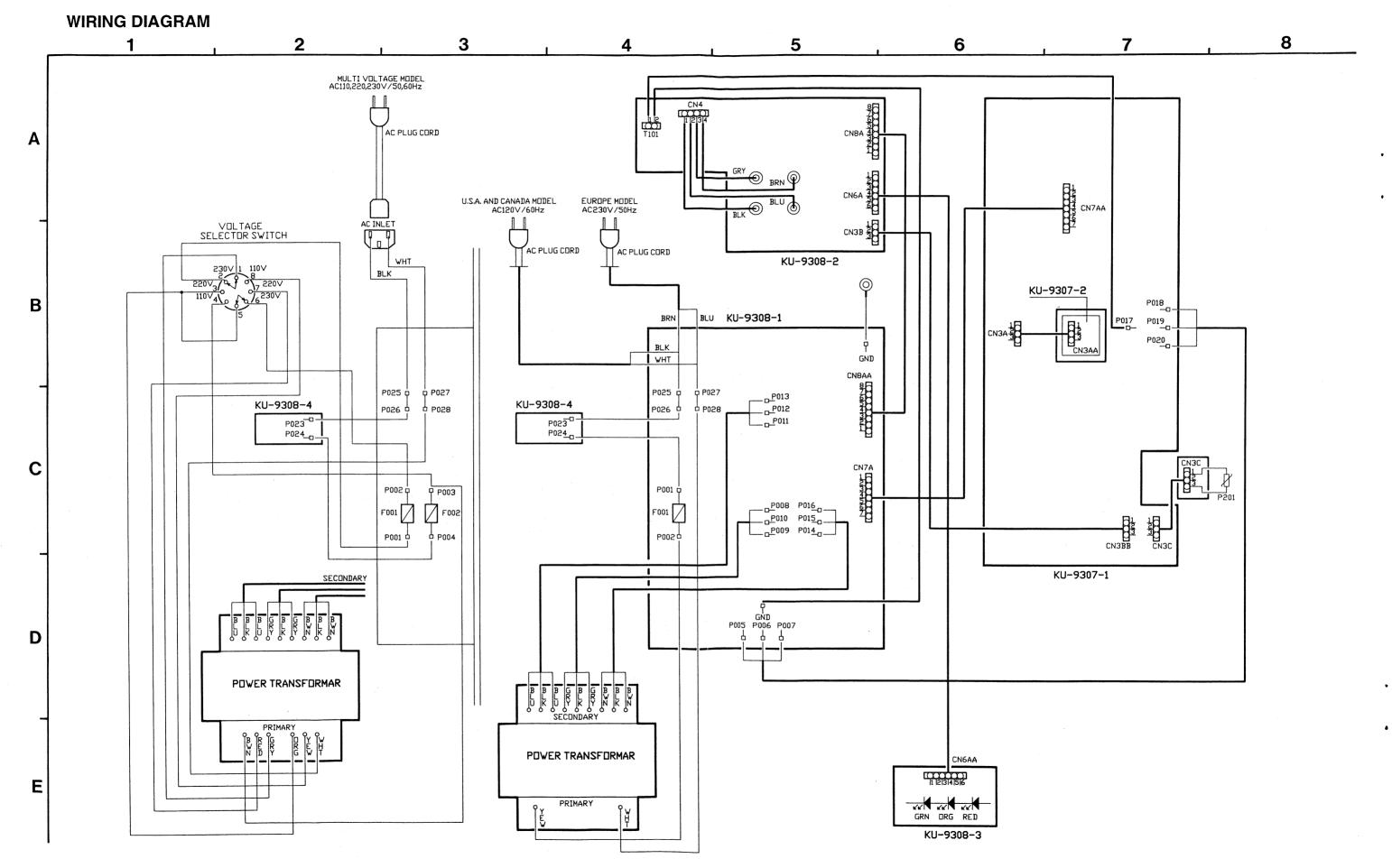
PARTS LIST OF PACKING & ACCESSORIES

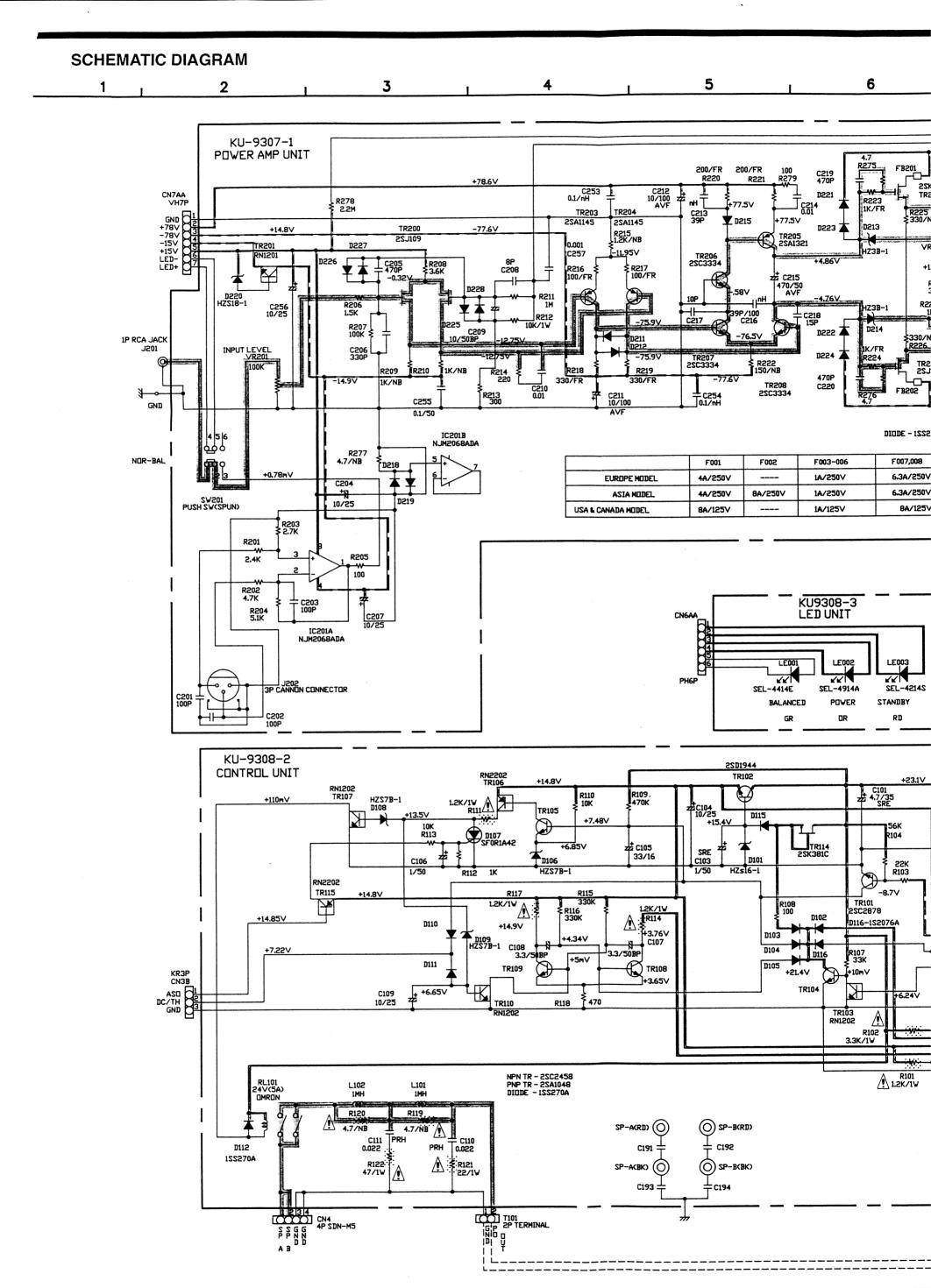
Ref. No.	Part No.	Part Name	Remarks	Q'ty
	504 9102 003	Styrene Paper		1
1		Cabinet Cover		1
		Cushion Ass'y		1
I	501 9265 006			1
1	001 0200 000	Ourton Gasc		'
	505 8006 019	Envelope		1
	511 9384 007	Operating Instructions	Europe,U.S.A, Canada	1
1	511 9403 001	Operating Instructions	Asia (Multi-Voltage)	1
		Service Station List	, (1
		OUTTOO CIALIOTI EICC		'
1	203 4442 001	Remote Plug Cord		1
	203 4451 005	3P Cannon Plug Cord		1
A	206 2130 000		Asia (Multi-Voltage)	
<u>A</u>				
<u>~</u>	202 0044 002	Plug Adaptor	Asia (Multi-Voltage)	1
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WARNING:

- Parts marked with "
 ^{\(\Delta\)} and/or shading have special characteristics important to safety.
- Be sure to use the specified parts for replacement.
- Part indicated with the mark " * are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.







NOTES ALL RI ALL CA EACH COND CIRCU NOTIC

